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I claim:

1	1. A method for adjusting the frequency response of a speaker system
2	comprising the steps of:
3	anticipating a main speaker low frequency sonic output from pre-determined main
4	speaker low frequency characteristics;
5	determining compensation variables configured to adjust the main speaker sonic
6	output;
7	inputting the compensation variables into a user interface;
8	receiving an input signal;
9	producing a high-frequency signal from the input signal in response to the
0	compensation variables.
1	2. The system of claim 1, further including the step of passing the high-
2	frequency signal to a main speaker of the speaker system.
1	3. A crossover system for adjusting the frequency response of a speaker
2	system comprising:
3	a user interface configured to receive user-adjustable variables indicative of main
4	speaker low frequency characteristics; and

input signal in response to the user-adjustable variables.

a compensation circuit configured to produce a desired high-pass signal from an

- 1 4. The system of claim 3, wherein the compensation circuit further comprises:
- a desired transfer function circuit having frequency response characteristics
- analogous to a desired crossover-main speaker combination;
- an equivalent circuit having frequency response characteristics analogous to a main
- 5 speaker; and
- a deconvolution circuit configured to deconvolve the main speaker characteristics
- 7 from the desired crossover-main speaker combination characteristics.
- The system of 3, wherein the user adjustable variables comprise a main
- 2 speaker low frequency cutoff frequency.
- 1 6. The system of 3, wherein the user adjustable variables comprise a main
- 2 speaker low frequency damping factor.
- The system of 3, wherein the user adjustable variables comprise a speaker
- 2 sensitivity factor.
- 1 8. The system of 3, wherein the user adjustable variables comprise a speaker
- 2 enclosure type.
- 1 9. The system of 3, wherein the user adjustable variables comprise a gain
- 2 factor.

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to produce a compensated response.

1	10. A method for adjusting the frequency response of a speaker system
2	comprising the steps of:
3	determining undesired sonic output characteristics for a main speaker; and
4	compensating for the undesired characteristics.
1	11. The method of claim 10, wherein the compensating step further comprises
2	the steps of:
3	inputting user adjustable settings indicative of main speaker low frequency
4	characteristics; and
5	producing a desired frequency response characteristics in response to the user
6	adjustable settings.
1	12. The method of claim 11, wherein the producing step further comprises the
2	steps of:
3	generating a combined system response from the user adjustable settings, the
4	combined system response having frequency response characteristics of a desired
5	combined system;
5	generating an equivalent speaker response from the user adjustable settings, the
7	equivalent speaker response having frequency response characteristics of the main speaker;
3	and
)	deconvolving the equivalent speaker response from the combined speaker response

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- 1 13. The method of claim 11, wherein the speaker characteristics comprise a low frequency cutoff frequency.
- 1 14. The method of claim 10, wherein the speaker characteristics comprise a low 2 frequency damping factor.
- 1 15. The method of claim 10, wherein the speaker characteristics comprise a 2 speaker sensitivity factor.
 - 16. The method of claim 10, wherein the speaker characteristics comprise a speaker enclosure type.
 - 17. A system for adjusting the frequency response of a speaker system, comprising:
 - means for inputting user adjustable settings that define low frequency characteristics of a main speaker of the speaker system;
- 5 means for receiving an input signal; and
- 6 means for producing a high-frequency signal from the input signal in response to 7 the user adjustable setting.
- 1 18. The system of claim 17, wherein the means for producing the high-
- 2 frequency signal further comprises means for setting a cutoff frequency for the high-
- 3 frequency signal.

- 1 19. The system of claim 17, wherein the means for producing the high-
- 2 frequency signal further comprises means for setting a gain for the high-frequency signal.